

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	267	(heat near sink) with (standoff "stand-off" (stand near off))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 10:19
L2	33	1 and (solder near (bump ball))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 10:13
L3	39	1 and ((solder near (bump ball)) flipchip (flip near chip))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 10:23
L4	139	(heat near sink) near4 (standoff "stand-off" (stand near off))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 10:21
L5	115	4 not 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 10:19
L6	11	(heat near1 (sink spreader)) with protrusion with molding with (process method)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 10:23
L7	509	(heat near1 (sink spreader)) near4 protrusion	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 10:23
L8	70	7 and ((solder near (bump ball)) flipchip (flip near chip))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 10:38

L9	70	7 and (((solder conductive) near (bump ball)) flipchip (flip near chip))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 10:24
L10	68	9 not 3 not 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 10:24
L11	17	("6191360").URPN.	USPAT	OR	ON	2005/09/20 10:26
L12	6	("6046077"   "6191360"   "6246015"   "6433420"   "6570259"   "6654248").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/20 10:26
L13	6	("5530295"   "5812570"   "6069027"   "6191360"   "6294831"   "6392900").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/20 10:27
L14	2	("6777819").URPN.	USPAT	OR	ON	2005/09/20 10:27
L15	2	("6432749").URPN.	USPAT	OR	ON	2005/09/20 10:32
L16	3	("6025642"   "6049123"   "6168970").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/20 10:33
L17	308	7 and (semiconductor chip die)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 10:38
L18	239	17 not 9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 10:38
L19	12	("5489805").URPN.	USPAT	OR	ON	2005/09/20 10:43
L20	1	("5225710").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/20 10:49
L21	12	("5489805").URPN.	USPAT	OR	ON	2005/09/20 10:49



Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1925	(heat near1 (sink spreader)) with (protrusion spacer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 15:32
L2	127	1 with (mold molding molded)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 15:03
L3	102	2 and (semiconductor chip die)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 15:03
L4	0	("6933176").URPN.	USPAT	OR	ON	2005/09/20 15:12
L5	30	("20010015492"   "20020005578"   "20020006718"   "20020180035"   "20020185734"   "20030034569"   "5172213"   "5311060"   "5339216"   "5444025"   "5493153"   "5610442"   "5639694"   "5650663"   "5679978"   "5705851"   "5736785"   "5773362"   "5877552"   "5977626"   "5986885"   "6037658"   "6236568"   "6251706"   "6323066"   "6414385"   "6462405"   "6525421"   "6631078"   "6656770").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/20 15:12
L6	13	("6037658").URPN.	USPAT	OR	ON	2005/09/20 15:15
L7	19	("4004195"   "4415025"   "4593342"   "4612978"   "4914551"   "4942076"   "4962416"   "4967950"   "5060844"   "5226471"   "5269372"   "5345107"   "5423376"   "5459352"   "5499450"   "5519936"   "5522452"   "5561323"   "5783862").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/20 15:17

L22	304	(US-20040046241-\$ or US-20050036291-\$ or US-20050056927-\$ or US-20050104195-\$ or US-20050104194-\$ or US-20040043539-\$ or US-20040099933-\$ or US-20040232545-\$).did. or (US-4092697-\$ or US-4339768-\$ or US-4561011-\$ or US-4612601-\$ or US-4628990-\$ or US-4654966-\$ or US-4744007-\$ or US-4949219-\$ or US-5031023-\$ or US-5067007-\$ or US-5108955-\$ or US-5126829-\$ or US-5151773-\$ or US-5153379-\$ or US-5168348-\$ or US-5175612-\$ or US-5175613-\$ or US-5227663-\$ or US-5258649-\$ or US-5276289-\$ or US-5276586-\$ or US-5305179-\$ or US-5306948-\$ or US-5311402-\$ or US-5329160-\$ or US-5345107-\$).did. or (US-5349831-\$ or US-5365107-\$ or US-5371404-\$ or US-5396403-\$ or US-5430611-\$ or US-5455457-\$ or US-5468910-\$ or US-5471027-\$ or US-5476818-\$ or US-5477082-\$ or US-5510956-\$ or US-5539253-\$ or US-5578525-\$ or US-5587882-\$ or US-5594282-\$ or US-5604978-\$ or US-5616957-\$ or US-5619070-\$ or US-5623394-\$ or US-5650918-\$ or US-5655290-\$ or US-5705850-\$ or US-5705851-\$ or US-5724729-\$ or US-5726079-\$ or US-5736785-\$ or US-5739581-\$).did. or (US-5744752-\$ or US-5745344-\$ or US-5751062-\$ or US-5757620-\$ or US-5777847-\$ or US-5789813-\$ or US-5811317-\$ or US-5819402-\$ or US-5834327-\$ or US-5844311-\$ or US-5877552-\$ or US-5881944-\$ or US-5881945-\$ or US-5883425-\$ or US-5883430-\$ or US-5889323-\$ or US-5891753-\$ or US-5895972-\$ or US-5898224-\$ or US-5904497-\$ or US-5905636-\$ or US-5907474-\$ or US-5909056-\$ or US-5909057-\$ or US-5920120-\$ or US-5926371-\$ or US-5931222-\$).did. or (US-5940271-\$ or US-5950073-\$ or US-5956576-\$ or US-5969426-\$ or US-5973407-\$ or US-5977626-\$ or US-5981310-\$ or US-5982038-\$ or US-5982621-\$ or US-5990418-\$ or US-6008536-\$ or US-6023096-\$ or US-6025995-\$ or US-6046077-\$ or US-6046498-\$ or US-6051888-\$ or US-6064217-\$ or US-6081027-\$ or US-6081037-\$ or US-6087443-\$	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/09/20 15:30
Search History 9/20/05 4:16:41 PM Page 2 C:\Documents and Settings\LTBai\My Documents\EAST\Workspaces\%Heat-sink-attach-to-surface-of-chip.wsp						

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L23	3	"6800948"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 15:32
L24	3263	438/108,122,127.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 15:32
L25	861	24 and (heat near1 (sink spreader))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 15:33
L26	56	1 and 24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 15:56



L27	64	US-6469381-\$.DID. OR US-5521435-\$.DID. OR US-0650714-\$.DID. OR US-6441499-\$.DID. OR US-6020637-\$.DID. OR US-6349032-\$.DID. OR US-6313521-\$.DID. OR US-6122171-\$.DID. OR US-0610493-\$.DID. OR US-6959353-\$.DID. OR US-5909057-\$.DID.US-06656R0-\$. DID. OR US-05N3362-\$.DID. OR US-544G025-\$.DID.US-6631078-\$. DID. OR US-6037658-\$.DID. US-5877552-\$.DID. OR US-5736785-\$.DID.US-5172213-\$. DID. OR US-5311060-\$.DID. OR US-5339216-\$.DID. OR US-5493153-\$.DID. OR US-5610442-\$.DID. OR US-0563694-\$.DID. OR US-5650663-\$.DID. OR US-5679978-\$.DID. OR US-5705851-\$.DID. OR US-5986885-\$.DID. OR US-6236568-\$.DID. OR US-6251706-\$.DID. OR US-6323066-\$.DID. OR US-6414385-\$.DID. OR US-6462405-\$.DID. OR US-6525421-\$.DID.US-5977626-\$. DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 16:03
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L28	72	US-6469381-\$.DID. OR US-5521435-\$.DID. OR US-0650714-\$.DID. OR US-6441499-\$.DID. OR US-6020637-\$.DID. OR US-6349032-\$.DID. OR US-6313521-\$.DID. OR US-6122171-\$.DID. OR US-6104093-\$.DID. OR US-5959353-\$.DID. OR US-5909057-\$.DID.US-6656770-\$. DID. OR US-5773362-\$.DID. OR US-5444025-\$.DID.US-6631078-\$. DID. OR US-6037658-\$.DID. US-5877552-\$.DID. OR US-5736785-\$.DID.US-5172213-\$. DID. OR US-5311060-\$.DID. OR US-5339216-\$.DID. OR US-5493153-\$.DID. OR US-5610442-\$.DID. OR US-5639694-\$.DID. OR US-5650663-\$.DID. OR US-5679978-\$.DID. OR US-5705851-\$.DID. OR US-5986885-\$.DID. OR US-6236568-\$.DID. OR US-6251706-\$.DID. OR US-6323066-\$.DID. OR US-6414385-\$.DID. OR US-6462405-\$.DID. OR US-6525421-\$.DID.US-5977626-\$. DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 16:14
L29	4	2002/0180035	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 16:14
L30	54	"5609889"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/20 16:14